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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/748,418	12/30/2003	Scott F. Mitchell	STC-03-0010	7838		
7590 03/09/2005			EXAMINER			
Jim Wheelington			DANG, T	DANG, THUAN D		
SABIC Americ	eas, Inc.					
SABIC Techno	ology Center	ART UNIT	PAPER NUMBER			
1600 Industrial	Blvd.	1764	-			
Houston, TX	77478	DATE MAILED: 03/09/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicati	on No.	Applicant(s) (				
		10/748,4	18	MITCHELL ET AL	••			
		Examine		Art Unit				
		Thuan D.	_	1764				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on	6/7/04.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	<ul> <li>✓ Claim(s) 1-17 is/are pending in the application.</li> <li>✓ 4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>☐ Claim(s) is/are allowed.</li> <li>✓ Claim(s) 1-17 is/are rejected.</li> <li>☐ Claim(s) is/are objected to.</li> <li>☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Applicat	ion Papers			,				
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>								
Priority ι	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen  1) Notice 2) Notice	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94	18)	4) Interview Summar Paper No(s)/Mail I					
3) 🔯 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/Ser No(s)/Mail Date 6/7/04.	SB/08)	5) Notice of Informal 6) Other:		D-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 contains the trademark/trade names "Cyclar-type". Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirement of 35 USC 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd.App. 1982). The claim scope is uncertain since the trademark of trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe the process. Accordingly, the identification/description is indefinite.

## Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5, 7-12, and 14-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chu (4,891,463).

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Chu discloses a process of aromatization of a paraffin such as ethane and propane to a product containing benzene, toluene, C8 aromatics, methane, and ethane in the presence of catalyst containing a ZSM-5 zeolite the aluminum of which is substituted with gallium and a metal such as Pt and a binder such as alumina and silica (the abstract; col. 5, lines 11-20; col. 4, col. 7, lines 54-62).

The ratio of ethane and methane in the product (col. 9, lines 29-35; table 1, and 2).

The condition of temperature, pressure can be found on the paragraph bridging columns 9 and 10.

The ratio of silica and alumina can be found on column 7, lines 16-25.

Chu does not disclose what compounds the produced C8 aromatics are. However, it is expected that these must inherently be xylenes since Chu's process is operated in the presence substantially the same catalyst, feed, and condition.

As disclosed in the full paragraph on column 5, the applicants' claimed amount of platinum is also disclosed by Chu.

Claim 13 is rejected under 35 U.S.C. 103(a) as obvious over Chu (4,891,463) in consideration with the admitted art disclosed in the specification.

Chu does not disclose using a zeolite as called for in claim 13. However, as disclosed on page 9, this zeolite is well-known.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the Chu process by using such a zeolite for making the Chu zeolite to arrive at the applicants' claimed process since it is expected that using any MFI zeolite for making the Chu catalyst would yield similar results.

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Claim 6 is rejected under 35 U.S.C. 103(a) as obvious over Chu (4,891,463) in view of Smith et al (6,160,191).

Chu discloses a process as discussed above.

Chu does not disclose the catalyst contains germanium substituted for the silicon. However, Smith discloses an aromatization catalyst of which the silicon can be substituted with germanium (col. 3, lines 47-58; col. 14, lines 15-24).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the Chu process by using a zeolite the silicon of which is substituted with germanium to arrive at the applicants' claimed process since it is expected that a zeolite the silica of which is substituted or not would yield similar results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan D. Dang whose telephone number is 571-272-1445. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thuan D. Dang Primary Examiner Art Unit 1764

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